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1 A wrapper generator for wrapping high performance legacy codes as Java/CORBA components   ■

M. Li, O. F. Rana, M. S. Shields, D. W. Walker

November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)**

Publisher: IEEE Computer Society

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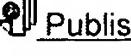
This paper describes a Wrapper Generator for wrapping high performance legacy codes as Java/CORBA components for use in a distributed component-based problem-solving environment. Using the Wrapper Generator we have automatically wrapped an MPI-based legacy code as a single CORBA object, and implemented a problem-solving environment for molecular dynamic simulations. Performance comparisons between runs of the CORBA object and the original legacy code on a cluster of workstations and on a pa ...

Keywords: Problem Solving Environments, Java/CORBA Components, Wrapper Generator,Distributed Parallel Computing

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2 Integrating legacy systems in distributed object architecture   ■

Matjaz B. Juric, Ivan Rozman, Marjan Hericko, Tomaz Domajnko

March 2000 **ACM SIGSOFT Software Engineering Notes**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: 📄 pdf(548.79 KB)   Additional Information: full citation, abstract, index terms

The ability of a new technology to reuse legacy systems is very important for its economic success. This paper presents a method for integrating legacy systems within distributed object architectures. The necessary steps required for integration are defined. It is explained how to define object interfaces. A detailed overview of how to implement the wrappers is given. The paper also answers the question which distributed object model is most suitable for legacy integration. Therefore a decision ...

Keywords: CORBA, distributed object architectures, legacy integration

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3 Generating wrappers for command line programs: the Cal-Aggie Wrap-O-Matic project   ■